









FIG. 4

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```
A1=1; A2=1; A3=1; A4=1;
                               /* ALL AMPLIFIER GAIN STATES SET TO HIGH GAIN */
T1 = -83;
               /* THRESHOLD 1, AT -83dBm */
T2=-67;
               /* THRESHOLD 2, AT -67dBm */
               /* THRESHOLD 3, AT -51dBm */
T3=-51;
T4=-35:
               /* THRESHOLD 4, AT -35dBm */
               /* WIDEBAND OVERLOAD THRESHOLD */
Tw=-28;
h=-3;
               /* HYSTERESIS VALUE
do {
       Rw=get_wideband_RSSI_measurement (A1, A2, A3, A4);
       Rn=get_narrowband_RSSI_measurement (A1, A2, A3, A4);
       if (Rw > Tw) then
               A1=0:
       else
               /* NORMAL OPERATION */
               If (Rn>T1 + h) A1=0;
               If (Rn<T1 - h) A1=1;
               If (Rn>T2 + h) A2=0:
               If (Rn < T2 - h) A2 = 1;
              If (Rn>T3 + h) A3=0;
              If (Rn < T3 - h) A3 = 1;
               If (Rn>T4 + h) A4=0;
               If (Rn < T4 - h) A4 = 1;
      update_AGC_amplifier_states (A1, A2, A3, A4);
       \frac{1}{1} while \frac{1}{1} = \frac{1}{1};
```

FIG. 5

